```
This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> s protease inhibitor (A) multifunctional
          32181 PROTEASE
          89859 INHIBITOR
           5809 PROTEASE INHIBITOR
                  (PROTEASE(W)INHIBITOR)
          16297 MULTIFUNCTIONAL
L14           0 PROTEASE INHIBITOR (A) MULTIFUNCTIONAL

=> s protease inhibitor
          32181 PROTEASE
          89859 INHIBITOR
L15        5809 PROTEASE INHIBITOR
                  (PROTEASE(W)INHIBITOR)

=> s L15 (A) fusion protein
          85779 FUSION
         141529 PROTEIN
          20559 FUSION PROTEIN
                  (FUSION(W)PROTEIN)
L16           0 L15 (A) FUSION PROTEIN

=> s multifunctional (A) protese inhibitor
          16297 MULTIFUNCTIONAL
             19 PROTESE
          89859 INHIBITOR
              0 PROTESE INHIBITOR
                  (PROTESE(W)INHIBITOR)
L17           0 MULTIFUNCTIONAL (A) PROTESE INHIBITOR

=> d his

     (FILE 'HOME' ENTERED AT 18:41:21 ON 31 MAY 2003)

     FILE 'CAPLUS' ENTERED AT 18:41:41 ON 31 MAY 2003
L1            1 S FUSION PROTEASE INHIBITOR
L2            7 S PROTEASE INHIBITOR (A) FUSION

     FILE 'USPATFULL, EUROPATFULL' ENTERED AT 18:52:12 ON 31 MAY 2003
L3            1 S L2
L4            0 S MULTIFUNCTIONAL PROTEASE INHIBITOR

     FILE 'JAPIO, PATOSWO' ENTERED AT 18:54:30 ON 31 MAY 2003
L5            0 S L2

     FILE 'CANCERLIT' ENTERED AT 18:56:25 ON 31 MAY 2003
L6            0 S FUSION PROTEASE IN HIBITOR
L7            0 S FUSION PROTEASE INHIBITOR

     FILE 'USPATFULL, EUROPATFULL' ENTERED AT 18:57:54 ON 31 MAY 2003
L8        23898 S FUSION PROTEIN
L9           27 S L8 AND PROTEASE INHIBITOR ACTIVITY

     FILE 'EMBASE' ENTERED AT 19:07:13 ON 31 MAY 2003
L10           1 S L2
                E BARR P J/AU 25
L11          73 S (E3) AND 1990<=PY<=2003
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                E PEMBERTON P/AU 25
L12           13 S (E3) AND 1990<=PY<=2003

      FILE 'STNGUIDE' ENTERED AT 19:21:34 ON 31 MAY 2003

      FILE 'EMBASE' ENTERED AT 19:22:57 ON 31 MAY 2003
                E PEMBERTON P/AU 25
L13           13 S (E3) AND 1990<=PY<=2003

      FILE 'USPATFULL' ENTERED AT 19:29:04 ON 31 MAY 2003
L14            0 S PROTEASE INHIBITOR (A) MULTIFUNCTIONAL
L15         5809 S PROTEASE INHIBITOR
L16            0 S L15 (A) FUSION PROTEIN
L17            0 S MULTIFUNCTIONAL (A) PROTESE INHIBITOR
```

L3 ANSWER 1 OF 1 USPATFULL
AN 2003:106306 USPATFULL
TI Multifunctional protease inhibitors and their use in treatment of disease
IN Barr, Philip J., Oakland, CA, UNITED STATES
Gibson, Helen, Oakland, CA, UNITED STATES
Pemberton, Philip, San Francisco, CA, UNITED STATES
PI US 2003073217 A1 20030417
AI US 2001-25514 A1 20011218 (10)
PRAI US 2000-256699P 20001218 (60)
US 2001-331966P 20011120 (60)
DT Utility
FS APPLICATION
LN.CNT 3252
INCL INCLM: 435/184.000
INCLS: 435/069.700; 435/320.100; 435/325.000; 536/023.200
NCL NCLM: 435/184.000
NCLS: 435/069.700; 435/320.100; 435/325.000; 536/023.200
IC [7]
ICM: C12N009-99
ICS: C07H021-04; C12P021-04; C12N005-06
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 6 OF 73 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V.
ACCESSION NUMBER: 96219791 EMBASE
DOCUMENT NUMBER: 1996219791
TITLE: Functional implications of the modeled structure of maspin.
AUTHOR: Fitzpatrick P.A.; Twong D.T.; **Barr P.J.**; Pemberton P.A.
CORPORATE SOURCE: LXR Biotechnology, 1401 Marina Way South,Richmond, CA 94804, United States
SOURCE: Protein Engineering, (1996) 9/7 (585-589).
ISSN: 0269-2139 CODEN: PRENE
COUNTRY: United Kingdom
DOCUMENT TYPE: Journal; Article
FILE SEGMENT: 016 Cancer
029 Clinical Biochemistry
LANGUAGE: English
SUMMARY LANGUAGE: English

AB The tumor suppressor maspin (mammary-specific serpin) is an unstable serpin that does not undergo the stressed to relaxed transition typical of proteinase inhibitory serpins and, consequently, is not likely to function as a serine proteinase inhibitor. This suggests that the positioning and configuration of the reactive site loop (RSL) of maspin are likely to resemble those of ovalbumin, the best studied non-inhibitory serpin. Accordingly, the tertiary structure of maspin has been modeled on the crystal structure of native ovalbumin. Biochemical data and the modeled theoretical structure of maspin reveal the absence of disulfide bonds in the molecule and the presence of an unstable RSL that adopts a distorted helical structure. We confirm that the RSL is extremely sensitive to limited proteolysis and suggest that this may provide a structural basis for the proteolytic inactivation of maspin, a process that is likely to modulate the activity of maspin in biological systems.

L12 ANSWER 13 OF 13 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V.

ACCESSION NUMBER: 90365271 EMBASE

DOCUMENT NUMBER: 1990365271

TITLE: Increased proteolytic cleavage of .alpha.1-antitrypsin (.alpha.1-proteinase inhibitor) in knee-joint synovial fluid from patients with rheumatoid arthritis.

AUTHOR: Zhang Z.; Winyard P.G.; Chidwick K.; Farrell A.; **Pemberton P.**; Carrell R.W.; Blake D.R.

CORPORATE SOURCE: Inflammation Group, London Hospital, Medical College, 25-29 Ashfield Street,London E1 1AD, United Kingdom

SOURCE: Biochemical Society Transactions, (1990) 18/5 (898-899). ISSN: 0300-5127 CODEN: BCSTB5

COUNTRY: United Kingdom

DOCUMENT TYPE: Journal; Conference Article

FILE SEGMENT: 029 Clinical Biochemistry
031 Arthritis and Rheumatism

LANGUAGE: English

ANSWER 1 OF 8 CAPLUS COPYRIGHT 2002 ACS
AN 2002:487756 CAPLUS
DN 137:57557
TI Fusion proteins of protease inhibitors and their use in treatment of inflammatory disease
IN Barr, Philip J.; Gibson, Helen L.; Pemberton, Philip
PA Arriva Pharmaceuticals, Inc., USA
SO PCT Int. Appl., 134 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002050287	A2	20020627	WO 2001-US49256	20011218
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2002041661	A5	20020701	AU 2002-41661	20011218
PRAI	US 2000-256699P	P	20001218		
	US 2001-331966P	P	20011120		
	WO 2001-US49256	W	20011218		

L7 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2002 ACS
AN 2001:396692 CAPLUS
DN 135:24647
TI Antiarthritic conjugates of a collagen II-binding chondroadherin fragment and an arthritis-affecting pharmaceutical substance
IN Heinegard, Dick
PA Anamar Medical Ab, Swed.
SO PCT Int. Appl., 29 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001037861	A1	20010531	WO 2000-SE2293	20001122
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	EP 1237568	A1	20020911	EP 2000-980190	20001122
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
PRAI	SE 1999-4237	A	19991122		
	WO 2000-SE2293	W	20001122		

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2002 ACS
AN 2000:381472 CAPLUS
DN 133:3719
TI Antibody fusion proteins for targeting apical epithelium
IN Davis, Pamela B.; Ferkol, Thomas; Eckman, Elizabeth; Schreiber, John; Luk,
John M.
PA Case Western Reserve University, USA
SO U.S., 24 pp., Cont.-in-part of U.S. 655,705.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 9

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6072041	A	20000606	US 1997-957333	19971024
	US 5972900	A	19991026	US 1996-655705	19960603
	US 5972901	A	19991026	US 1996-656906	19960603
	US 6261787	B1	20010717	US 1999-264032	19990308
	US 6287817	B1	20010911	US 2000-559393	20000426
PRAI	US 1996-655705	A2	19960603		
	US 1996-656906	A2	19960603		
	US 1994-216534	B2	19940323		
	WO 1995-US3677	A1	19950323		
	US 1997-957333	A2	19971024		

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 4 OF 8 SCISEARCH COPYRIGHT 2002 ISI (R)
AN 1999:307366 SCISEARCH
GA The Genuine Article (R) Number: 186VV
TI Metastability in the inhibitory mechanism of human **alpha**(1)-**antitrypsin**
AU Im H; Seo E J; Yu M H (Reprint)
CS KOREA RES INST BIOSCI & BIOTECHNOL, NATL CREAT RES INITIAT CTR, POB 115, TAEJON 305600, SOUTH KOREA (Reprint); KOREA RES INST BIOSCI & BIOTECHNOL, NATL CREAT RES INITIAT CTR, TAEJON 305600, SOUTH KOREA
CYA SOUTH KOREA
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (16 APR 1999) Vol. 274, No. 16, pp. 11072-11077.
Publisher: AMER SOC BIOCHEMISTRY MOLECULAR BIOLOGY INC, 9650 ROCKVILLE PIKE, BETHESDA, MD 20814.
ISSN: 0021-9258.
DT Article; Journal
FS LIFE
LA English
REC Reference Count: 45
ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L7 ANSWER 5 OF 8 SCISEARCH COPYRIGHT 2002 ISI (R)
AN 97:641999 SCISEARCH
GA The Genuine Article (R) Number: XT084
TI A multifunctional protein: involvement of the alpha-1 serum **protease inhibitor** in SDS and high salt-stable DNA-protein complexes
AU Glaser T; Rothbarth K; Stammer H; Kempf T; Spiess E; Werner D (Reprint)
CS GERMAN CANC RES CTR, DIV BIOCHEM CELL 0225, NEUENHEIMER FELD 280, D-69120 HEIDELBERG, GERMANY (Reprint); GERMAN CANC RES CTR, DIV BIOCHEM CELL 0225,

D-69120 HEIDELBERG, GERMANY; GERMAN CANC RES CTR, PROT SEQUENCE ANAL UNIT 0232, D-69120 HEIDELBERG, GERMANY; GERMAN CANC RES CTR, BIOMED ULTRASTRUCT
RES UNIT 0195, D-69120 HEIDELBERG, GERMANY
CYA GERMANY
SO FEBS LETTERS, (11 AUG 1997) Vol. 413, No. 1, pp. 50-54.
Publisher: ELSEVIER SCIENCE BV, PO BOX 211, 1000 AE AMSTERDAM, NETHERLANDS.
ISSN: 0014-5793.
DT Article; Journal
FS LIFE
LA English
REC Reference Count: 17
ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L7 ANSWER 6 OF 8 SCISEARCH COPYRIGHT 2002 ISI (R)
AN 94:766564 SCISEARCH
GA The Genuine Article (R) Number: PV510
TI PRODUCTION, PURIFICATION, AND CHARACTERIZATION OF RECOMBINANT MASPIN PROTEINS
AU SHENG S J; PEMBERTON P A; SAGER R (Reprint)
CS LXR BIOTECHNOL INC, RICHMOND, CA, 94804 (Reprint); LXR BIOTECHNOL INC, RICHMOND, CA, 94804; HARVARD UNIV, SCH MED, DANA FARBER CANC INST, DIV CANC GENET, BOSTON, MA, 02115
CYA USA
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (09 DEC 1994) Vol. 269, No. 49, pp. 30988-30993.
ISSN: 0021-9258.
DT Article; Journal
FS LIFE
LA ENGLISH
REC Reference Count: 20
ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L7 ANSWER 7 OF 8 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.
AN 97251077 EMBASE
DN 1997251077
TI A multifunctional protein: Involvement of the alpha-1 serum **protease inhibitor** in SDS and high salt-stable DNA-protein complexes.
AU Glaser T.; Rothbarth K.; Stammer H.; Kempf T.; Spiess E.; Werner D.
CS D. Werner, Div. Biochemistry of the Cell (0225), German Cancer Research Center, Im Neuenheimer Feld 280, D-69120 Heidelberg, Germany. werner@dkfz-heidelberg.de
SO FEBS Letters, (1997) 413/1 (50-54).
Refs: 17
ISSN: 0014-5793 CODEN: FEBLAL
PUI S 0014-5793(97)00876-4
CY Netherlands
DT Journal; Article
FS 029 Clinical Biochemistry
LA English
SL English

L7 ANSWER 8 OF 8 CANCERLIT
AN 97431610 CANCERLIT
DN 97431610 PubMed ID: 9287115
TI A multifunctional protein: involvement of the alpha-1 serum **protease inhibitor** in SDS and high salt-stable DNA-protein complexes.

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AU Glaser T; Rothbarth K; Stammer H; Kempf T; Spiess E; Werner D
CS Division Biochemistry of the Cell (0225), German Cancer Research Center, Heidelberg.
SO FEBS LETTERS, (1997 Aug 11) 413 (1) 50-4.
Journal code: 0155157. ISSN: 0014-5793.
CY Netherlands
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS MEDLINE; Priority Journals
OS MEDLINE 97431610
EM 199710
ED Entered STN: 19971217
Last Updated on STN: 19971217

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